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(57) ABSTRACT

A dual function transducer assembly comprising: a magnet motor assembly comprising a first magnet plate and a second magnet plate arranged in parallel to one another along a first axis; a sound output assembly coupled to the magnet motor assembly, the sound output assembly comprising a piston and a voice coil, and wherein the voice coil is arranged to cause a vibration of the piston in a direction parallel to the first axis; and a shaker assembly coupled to the magnet motor assembly, the shaker assembly comprising a first shaker coil and a second shaker coil arranged to cause a vibration of the magnet assembly in a direction parallel to a second axis that is perpendicular to the first axis.

